



Mariem KALLEL

Doctoral Student at ReGIM-Lab

2nd year PhD student in computer science, specializing in artificial intelligence. Passionate about research, particularly interested in the application of deep learning to solve medical complex problems. My aim is to explore new approaches in this field and make a significant contributions to the advancement of AI research.

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EDUCATION

PhD in Computer Science

Since october 2024 - Present, Faculty of Sciences of Sfax (FSS), Sfax

Research Master in Digital Technologies for Health Care

2021 - 2023, ISIMS, Sfax

Bachelor in Computer Science

2018 - 2021, ISIMS, Sfax

PROFESSIONAL EXPERIENCE

Secretary, IEEE Systems Council - Tunisia Chapter, 2025 - Present

PhD Research Intern

October - November 2025, Centro de Innovación para la Sociedad de la Información (CICEI-ULPGC), University of Las Palmas de Gran Canaria, Spain

- Implement a Vision-Language model for medical imaging classification using Pytorch

Research Intern - Master Thesis

February 2023 - February 2024, ISIMS, Sfax

- Conduct advanced research on multimodal medical image fusion, exploring deep learning and image processing techniques.
- Develop an innovative fusion model integrating MRI and PET images to improve the accuracy medical diagnosis, using convolutional neural networks (CNNs) and vision transformer to optimize the integration of heterogeneous data.

Research Intern - End of Year Project

Mars 2022 - Mai 2022, Mediacom, Sfax

- Conduct in-depth research into facial diagnostic techniques and methodologies.
- Develop a facial detection system.

Full-Stack Developer Intern - Final Year Project

February 2021 - Juin 2021, Exadev, Sfax

- Design and build a project management application, using Agile methodologies.
- Develop a dynamic backend architecture and frontend user interface, ensuring communication between them via a REST API.

HARD SKILLS

Programming languages: Python, PHP, TypeScript, **Frameworks:** PyTorch, Laravel, Angular
Artificial Intelligence (AI) models: Convolutional Neural Networks (CNN), Transformer, Vision-Language models (VLMs)

LANGUAGES

Arabic: Native Language **Frensh:** Intermediate **Anglais:** Intermediate

CERTIFICATIONS & TRAINING

Certificate of Participation Summer School on Generative Artificial Intelligence : Theory and Applications, 2024

Certificate of Recognition - 5th Place, Capture The Flag (CTF) Competition, 2024

Certificate of Participation Summer School on Biomedical Imaging with Deep Learning, 2025

Certificate of Participation IEEE Entrepreneurship 101 Workshop, 2025

Certificate of Competency Generative AI with Difusion Models - Nvidia, 2024

Professional Memberships

Member, IEEE (Computational Intelligence Society, Young Professionals, Industry Applications Society, Women in Engineering), 2025 - Present